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TITLE: CATALYST FOR PURIFICATION OF EXHAUST GAS

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INVENTOR-INFORMATION:
NAME

HOSOYA, MITSURU

UEMITSU, ISAO

ASSIGNEE-INFORMATION:
NAME COUNTRY
HINO MOTORS LTD N/A

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ABSTRACT:

PURPOSE: To efficiently decrease NOx even when water and SO<SB>2</SB> are

present in exhaust gas from an internal combustion engine and to suppress deterioration of the catalyst by incorporating oxide containing solid acid into a first catalyst layer and incorporating NOx catalyst or oxidation catalyst into a second catalyst layer to produce a catalyst for purification of exhaust gas.

CONSTITUTION: This catalyst 10 for purification of exhaust gas consists of a first catalyst layer 11 comprising oxide containing solid acid and a second catalyst layer 12 containing NOx catalyst or oxidation catalyst and is formed into spherical pellets. The first catalyst layer 11 adsorbs and removes water and gaseous SO<SB>2</SB> which are present in exhaust gas from a diesel engine. Oxides selected from among zeolite, metallosilicate, alumina, zirconia and titania are used for the catalyst layer. And, multiple oxides containing Si, Al, Zr, Ti or the like are used for the catalyst layer 11. The second catalyst layer 12 removes NOx, HC, and CO in exhaust gas. The NOx catalyst or oxidation catalyst is produced by depositing metals such as Pt on a carrier such as alumina.